

ENSEMB.031A



PATENT

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4/25/02  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Stanwood, et al. ) Group Art Unit 2661  
App. No. : 09/991,532 )  
Filed : November 15, 2001 )  
For : IMPROVED FRAMING FOR )  
AN ADAPTIVE )  
MODULATION )  
COMMUNICATION )  
SYSTEM )  
Examiner : Unknown

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INFORMATION DISCLOSURE STATEMENT

United States Patent and Trademark Office  
P.O. Box 2327  
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Dear Sir:

Enclosed is form PTO-1449 listing references that are also enclosed. This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 3/20/02

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ENSEMB.031A	APPLICATION NO. 09/991,532
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		<b>RECEIVED</b> MAR 2 7 2002	
APPLICANT Stanwood et al.		FILING DATE November 15, 2001	GROUP 2661

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	3,949,404	04/06/76	Fletcher, et al.			
	2	4,495,619	01/22/85	Acampora			
	3	5,130,983	7/14/92	Heffner, III			
	4	5,297,144	03/22/94	Gilbert, et al.			
	5	5,420,851	05/30/95	Seshadri, et al.			
	6	5,444,698	08/22/95	Kito			
	7	5,511,082	04/23/96	How, et al.			
	8	5,517,503	5/14/96	Hess			
	9	5,615,212	03/25/97	Ruszczuk, et al.			
	10	5,638,371	06/10/97	Raychaudhuri, et al.			
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	12	5,675,573	10/07/97	Karol, et al.			
	13	5,751,708	05/12/98	Eng, et al.			
	14	5,768,254	06/16/98	Papadopoulos, et al.			
	15	5,828,695	10/27/98	Webb			
	16	5,859,619	01/12/99	Wu, et al.			
	17	5,890,055	03/30/99	Chu, et al.			
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	19	6,016,311	01/18/00	Gilbert, et al.			
	20	6,016,313	01/18/00	Foster, Jr., et al.			
	21	6,038,455	03/14/00	Gardner, et al.			
	22	6,094,421	07/25/00	Scott			
	23	6,112,080	08/29/00	Anderson, et al.			

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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		FILING DATE November 15, 2001	

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FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	24	0 507 384 A2	10/7/1992	EP				
	25	WO 92/22162	12/10/1992	PCT				
	26	0 720 405 A2	7/3/1996	EP				
	27	0 891 060 A2	1/13/1998	EP				
	28	0 845 916 A2	6/3/1998	EP				
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	30	WO 99/39532	8/5/1999	PCT				
	31	WO 00/01188	1/6/2000	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	32	Lin., et al., "Error Control Coding, Fundamentals and Applications", Prentice-Hall Computer Applications in Electrical Engineering Series., 1993, pages 315-349.
	33	L.H. Charles Lee, "Convolutional Coding, Fundamentals and Applications", Artech House, Inc., 1997, p. 11-51.
	34	Redl, et al., "An Introduction to GSM", Artech House, Inc., 1995; pages 84, 85 and 95.
	35	C.E. Shannon, "A Mathematical Theory of Communication", Bell System Technical Journal, pp. 379-423 (Part I), 623-656 (Part II), 7/1948.
	36	Ulm., et al., "Data-Over-Cable Interface Specifications, Radio Frequency Interface Specification", Hewlett Packard Interim Specification, Doc. Control No.: SP-RF101-970321, published 3-21-97 by MCNS Holdings, L.P., Section 6, pgs. 43-85.
	37	Wolf, et al., "On the Weight Distribution of Linear Block Codes Formed From Convolutional Codes", IEEE, IEEE Transactions on Communications, Vol. 44:9, September 1996.
	38	"Asynchronous Transfer Mode (ATM) Technical Overview", 2nd Edition, Prentice Hall, October 1995, Chapter 3, pp. 21-25.
	39	Sampei, S. et al., "Adaptive Modulation/TDMA Scheme for Personal Multi-Media Communication Systems, (11/28/1994) Telecommunications Conference (Globecom), IEEE, pp 989-993.
	40	Ue, Toyoki et al., "Symbol Rate and Modulation Level Controlled Adaptive Modulation/TDMA/TDD for Personal Communication Systems, (7/25/1995) Proceedings of the Vehicular Technology Conference, IEEE, Vol Conf. 45 pp 306-310.
	41	H.C. Papadopoulos et al., Reduction of Mixed Co-channel Interference in Microcellular STDD Systems, Vehicular Technology Conference, 1995 IEEE 45th, Vol.2, pages 759-763

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